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L7	0	(automatic adj defect adj classification) and tagpair	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 16:30
L8	8	(automatic adj defect adj classification) and pairwise	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 16:50
L9	2	"4519041".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 16:50
L10	2	"6256093".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 18:50

L11	7	pairwise adj classification	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 18:53
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L13	0	(round adj robin adj classification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 18:52
L14	2	(pairwise adj classification) and (support adj vector adj machine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 18:53
L15	1246	(support adj vector adj machine)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 18:53
L16	188	(support adj vector adj machine) and fuzzy	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 18:53
L17	0	(support adj vector adj machine) and fuzzy and (automatic adj defect adj classification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 18:54
L18	0	(support adj vector adj machine) and (automatic adj defect adj classification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 18:54
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L20	1	fuzzy and (automatic adj defect adj classification) and (supervised adj learning)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 18:56

L21	3	(automatic adj defect adj classification) and (supervised adj learning)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 20:31
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L24	1	706/52.ccls. and (automatic adj defect adj classification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 20:32
L25	0	706/52.ccls. and (pairwise adj classification)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/01/18 20:32

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1 Machine learning with data dependent hypothesis classes
Adam Cannon, J. Mark Ettinger, Don Hush, Clint Scovel
March 2002 **The Journal of Machine Learning Research**, Volume 2
Publisher: MIT Press
Full text available: pdf(232.41 KB) Additional Information: full citation, abstract, references, index terms

We extend the VC theory of statistical learning to data dependent spaces of classifiers. This theory can be viewed as a decomposition of classifier design into two components; the first component is a restriction to a data dependent hypothesis class and the second is empirical risk minimization within that class. We define a measure of complexity for data dependent hypothesis classes and provide data dependent versions of bounds on error deviance and estimation error. We also provide a structura ...

Keywords: Shatter coefficient, classification, computational learning theory, empirical process theory, structural risk minimization

2 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)
September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5
Publisher: ACM Press
Full text available: pdf(1.98 MB) Additional Information: full citation

3 Special issue: Game-playing programs: theory and practice
M. A. Bramer
April 1982 **ACM SIGART Bulletin**, Issue 80
Publisher: ACM Press
Full text available: pdf(9.23 MB) Additional Information: full citation, abstract

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

4 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Publisher: IBM Press

Full text available: pdf(4.21 MB) Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

5 Computer Processing of Line-Drawing Images

Herbert Freeman

March 1974 **ACM Computing Surveys (CSUR)**, Volume 6 Issue 1

Publisher: ACM Press

Full text available: pdf(3.18 MB) Additional Information: full citation, references, citings, index terms

6 Software unit test coverage and adequacy

Hong Zhu, Patrick A. V. Hall, John H. R. May

December 1997 **ACM Computing Surveys (CSUR)**, Volume 29 Issue 4

Publisher: ACM Press

Full text available: pdf(477.42 KB) Additional Information: full citation, abstract, references, citings, index terms, review

Objective measurement of test quality is one of the key issues in software testing. It has been a major research focus for the last two decades. Many test criteria have been proposed and studied for this purpose. Various kinds of rationales have been presented in support of one criterion or another. We survey the research work in this area. The notion of adequacy criteria is examined together with its role in software dynamic testing. A review of criteria classification is followed by a sum ...

Keywords: comparing testing effectiveness, fault detection, software unit test, test adequacy criteria, test coverage, testing methods

7 VLSI cell placement techniques

K. Shahookar, P. Mazumder

June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: full citation, abstract, references, citings, index terms, review

VLSI cell placement problem is known to be NP complete. A wide repertoire of heuristic algorithms exists in the literature for efficiently arranging the logic cells on a VLSI chip. The objective of this paper is to present a comprehensive survey of the various cell placement techniques, with emphasis on standard cell and macro placement. Five major algorithms for placement are discussed: simulated annealing, force-directed placement, min-cut placement, placement by numerical optimization, a ...

Keywords: VLSI, floor planning, force-directed placement, gate array, genetic algorithm, integrated circuits, layout, min-cut, physical design, placement, simulated annealing, standard cell

8 Model-based recognition in robot vision

Roland T. Chin, Charles R. Dyer
March 1986 **ACM Computing Surveys (CSUR)**, Volume 18 Issue 1
Publisher: ACM Press

Full text available: pdf(4.94 MB) Additional Information: full citation, abstract, references, citings, index terms, review

This paper presents a comparative study and survey of model-based object-recognition algorithms for robot vision. The goal of these algorithms is to recognize the identity, position, and orientation of randomly oriented industrial parts. In one form this is commonly referred to as the "bin-picking" problem, in which the parts to be recognized are presented in a jumbled bin. The paper is organized according to 2-D, 2½-D, and 3-D object representations, which are used as the basis for ...

9 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4
Publisher: ACM Press
Full text available: pdf(6.19 MB) Additional Information: full citation, index terms

10 Experiences with criticality predictions in software development

Christof Ebert
November 1997 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th European conference held jointly with the 5th ACM SIGSOFT international symposium on Foundations of software engineering ESEC '97/FSE-5**, Volume 22 Issue 6
Publisher: Springer-Verlag New York, Inc., ACM Press
Full text available: pdf(1.36 MB) Additional Information: full citation, references, citings, index terms

Keywords: classification, criticality prediction, data analysis, eomplexity, quality models, software metrics

11 A survey of methods for recovering quadrics in triangle meshes

Sylvain Petitjean
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2
Publisher: ACM Press

Full text available: pdf(3.91 MB) Additional Information: full citation, abstract, references, citings, index terms

In a variety of practical situations such as reverse engineering of boundary representation from depth maps of scanned objects, range data analysis, model-based recognition and algebraic surface design, there is a need to recover the shape of visible surfaces of a dense 3D point set. In particular, it is desirable to identify and fit simple surfaces of known type wherever these are in reasonable agreement with the data. We are interested in the class of quadric surfaces, that is, algebraic surfa ...

Keywords: Data fitting, geometry enhancement, local geometry estimation, mesh fairing, shape recovery

12 Automatic verb classification based on statistical distributions of argument structure
Paola Merlo, Suzanne Stevenson
September 2001 **Computational Linguistics**, Volume 27 Issue 3
Publisher: MIT Press
Full text available: pdf(2.84 MB) Additional Information: full citation, abstract, references, citings
Publisher Site

Automatic acquisition of lexical knowledge is critical to a wide range of natural language processing tasks. Especially important is knowledge about verbs, which are the primary source of relational information in a sentence---the predicate-argument structure that relates an action or state to its participants (i.e., who did what to whom). In this work, we report on supervised learning experiments to automatically classify three major types of English verbs, based on their argument structure--sp ...

13 Statistical Discrimination of the Synonymy/Antonymy Relationship Between Words
P. A. W. Lewis, P. B. Baxendale, J. L. Bennett
January 1967 **Journal of the ACM (JACM)**, Volume 14 Issue 1
Publisher: ACM Press
Full text available: pdf(1.94 MB) Additional Information: full citation, abstract, references, citings, index terms

A basic hypothesis is stated about the contextual and co-occurrence properties of synonymous words. On the basis of this hypothesis, several statistics are derived for use in discriminating between pairs of words which are synonymous and pairs of words which are nonsynonymous. The discriminating power of these statistics is tested on a corpus consisting of titles of physics theses. The tests indicate that two of the derived statistics have relatively high discriminating power. The results a ...

14 Model-based testing in practice
S. R. Dalal, A. Jain, N. Karunanithi, J. M. Leaton, C. M. Lott, G. C. Patton, B. M. Horowitz
May 1999 **Proceedings of the 21st international conference on Software engineering**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.24 MB) Additional Information: full citation, references, citings, index terms

Keywords: AETG software system, automatic test generation, model-based testing

15 Automated consistency checking of requirements specifications
Constance L. Heitmeyer, Ralph D. Jeffords, Bruce G. Labaw
July 1996 **ACM Transactions on Software Engineering and Methodology (TOSEM)**, Volume 5 Issue 3
Publisher: ACM Press
Full text available: pdf(404.39 KB) Additional Information: full citation, abstract, references, citings, index terms, review

This article describes a formal analysis technique, called consistency checking, for automatic detection of errors, such as type errors, nondeterminism, missing cases, and circular definitions, in requirements specifications. The technique is designed to analyze requirements specifications expressed in the SCR (Software Cost Reduction) tabular notation. As background, the SCR approach to specifying requirements is reviewed. To provide a formal semantics for the SCR notatio ...

Keywords: application-independent properties, consistency checking, formal

requirements modeling, software cost reduction methodology, tabular notations

16 Automatic linguistic classification

E. D. Pendergraft, N. Dale

May 1965 **Proceedings of the 1965 conference on Computational linguistics**

Publisher: Association for Computational Linguistics

Full text available: pdf(1.33 MB) Additional Information: full citation, abstract, references

Many investigators have recognized that sophisticated mechanical translation or other computational linguistic systems will require language learnign capabilities, both in the ability to discover and verify new descriptive rules, and to adapt rules to new situations of use.The work plan of a long-range series of experiments in automatic linguistic classification is described, together with a discussion of the first experiment now in progress. The latter is concerned with category identification. ...

17 Special issue on special feature: Ranking a random feature for variable and feature selection

Hervé Stoppiglia, Gérard Dreyfus, Rémi Dubois, Yacine Oussar

March 2003 **The Journal of Machine Learning Research**, Volume 3

Publisher: MIT Press

Full text available: pdf(103.01 KB) Additional Information: full citation, abstract, citings, index terms

We describe a feature selection method that can be applied directly to models that are linear with respect to their parameters, and indirectly to others. It is independent of the target machine. It is closely related to classical statistical hypothesis tests, but it is more intuitive, hence more suitable for use by engineers who are not statistics experts. Furthermore, some assumptions of classical tests are relaxed. The method has been used successfully in a number of applications that are brie ...

18 Knowledge representation for commonsense reasoning with text

Kathleen Dahlgren, Joyce McDowell, Edward P. Stabler

September 1989 **Computational Linguistics**, Volume 15 Issue 3

Publisher: MIT Press

Full text available: pdf(2.52 MB) Additional Information: full citation, references, citings

Publisher Site

19 Automatic generation of state invariants from requirements specifications

Ralph Jeffords, Constance Heitmeyer

November 1998 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 6th ACM SIGSOFT international symposium on Foundations of software engineering SIGSOFT '98/FSE-6**, Volume 23 Issue 6

Publisher: ACM Press

Full text available: pdf(1.32 MB) Additional Information: full citation, abstract, references, citings, index terms

Automatic generation of state invariants, properties that hold in every reachable state of a state machine model, can be valuable in software development. Not only can such invariants be presented to system users for validation, in addition, they can be used as auxiliary assertions in proving other invariants. This paper describes an algorithm for the automatic generation of state invariants that, in contrast to most other such algorithms, which operate on programs, derives invariants from requi ...

Keywords: formal methods, invariants, requirements, software tools, specification,

validation, verification

20 Web Clustering, filtering and applications: Narrative text classification for automatic key phrase extraction in web document corpora

Yongzheng Zhang, Nur Zincir-Heywood, Evangelos Milios

November 2005 **Proceedings of the 7th annual ACM international workshop on Web information and data management WIDM '05**

Publisher: ACM Press

Full text available: pdf(184.38 KB) Additional Information: full citation, abstract, references, index terms

Automatic key phrase extraction is a useful tool in many text related applications such as clustering and summarization. State-of-the-art methods are aimed towards extracting key phrases from traditional text such as technical papers. Application of these methods on Web documents, which often contain diverse and heterogeneous contents, is of particular interest and challenge in the information age. In this work, we investigate the significance of narrative text classification in the task of auto ...

Keywords: acceptable percentage, key phrase extraction, narrative text classification

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1 Special issue: Game-playing programs: theory and practice

M. A. Bramer

April 1982 **ACM SIGART Bulletin**, Issue 80

Publisher: ACM Press

Full text available: pdf(9.23 MB) Additional Information: full citation, abstract

This collection of articles has been brought together to provide SIGART members with an overview of Artificial Intelligence approaches to constructing game-playing programs. Papers on both theory and practice are included.

2 Real-time shading

Marc Olano, Kurt Akeley, John C. Hart, Wolfgang Heidrich, Michael McCool, Jason L. Mitchell, Randi Rost

August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**

Publisher: ACM Press

Full text available: pdf(7.39 MB) Additional Information: full citation, abstract

Real-time procedural shading was once seen as a distant dream. When the first version of this course was offered four years ago, real-time shading was possible, but only with one-of-a-kind hardware or by combining the effects of tens to hundreds of rendering passes. Today, almost every new computer comes with graphics hardware capable of interactively executing shaders of thousands to tens of thousands of instructions. This course has been redesigned to address today's real-time shading capabili ...

3 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels

Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

Publisher: ACM Press

Full text available: pdf(6.06 MB) Additional Information: full citation, abstract, references, index terms

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements

can be obtained since virtually all wireless devices provide the req ...

Keywords: channel capture, emulation, wireless

4 Frontmatter (TOC, Letters, Election results, Software Reliability Resources!, Computing Curricula 2004 and the Software Engineering Volume SE2004, Software Reuse Research, ICSE 2005 Forward)

July 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 4

Publisher: ACM Press

Full text available: pdf(6.19 MB) Additional Information: full citation, index terms

5 VLSI cell placement techniques

K. Shahookar, P. Mazumder

June 1991 **ACM Computing Surveys (CSUR)**, Volume 23 Issue 2

Publisher: ACM Press

Full text available: pdf(5.28 MB) Additional Information: full citation, abstract, references, citings, index terms, review

VLSI cell placement problem is known to be NP complete. A wide repertoire of heuristic algorithms exists in the literature for efficiently arranging the logic cells on a VLSI chip. The objective of this paper is to present a comprehensive survey of the various cell placement techniques, with emphasis on standard cell and macro placement. Five major algorithms for placement are discussed: simulated annealing, force-directed placement, min-cut placement, placement by numerical optimization, a ...

Keywords: VLSI, floor planning, force-directed placement, gate array, genetic algorithm, integrated circuits, layout, min-cut, physical design, placement, simulated annealing, standard cell

6 Lessons from the design of the Eiffel libraries

Bertrand Meyer

September 1990 **Communications of the ACM**, Volume 33 Issue 9

Publisher: ACM Press

Full text available: pdf(2.41 MB) Additional Information: full citation, abstract, references, citings, index terms, review

The nature of programming is changing. Most of the software engineering literature still takes for granted a world of individual projects, where the sole aim is to produce specific software systems in response to particular requirements, little attention being paid to each system's relationship to previous or subsequent efforts. This implicit model seems unlikely to allow drastic improvements in software quality and productivity. Such order-of-magnitude advances will require a pr ...

7 Illustrative risks to the public in the use of computer systems and related technology

Peter G. Neumann

January 1996 **ACM SIGSOFT Software Engineering Notes**, Volume 21 Issue 1

Publisher: ACM Press

Full text available: pdf(2.54 MB) Additional Information: full citation

8 How does PASCAL-XSC compare to other programming languages with respect to

the IEEE standard?
Pascal Janssens, Annie Cuyt
August 1993 **ACM SIGPLAN Notices**, Volume 28 Issue 8
Publisher: ACM Press
Full text available: pdf(669.26 KB) Additional Information: full citation, abstract, index terms

In this report we investigate a number of popular programming languages, when used for scientific computation or computational mathematics. The main aim is to investigate the XSC-philosophy that has been launched in the last few years and has resulted in a number of XSC-extensions of existing programming languages. We also focus on details of the IEEE standard which, although a standard, is never followed completely.

9 Illustrative risks to the public in the use of computer systems and related technology
Peter G. Neumann
January 1992 **ACM SIGSOFT Software Engineering Notes**, Volume 17 Issue 1
Publisher: ACM Press
Full text available: pdf(1.65 MB) Additional Information: full citation, citings, index terms

10 Partitioning and placement for buildable QCA circuits
Sung Kyu Lim, Ramprasad Ravichandran, Mike Niemier
March 2005 **ACM Journal on Emerging Technologies in Computing Systems (JETC)**, Volume 1 Issue 1
Publisher: ACM Press
Full text available: pdf(360.59 KB) Additional Information: full citation, abstract, references, index terms

Quantum-dot Cellular Automata (QCA) is a novel computing mechanism that can represent binary information based on spatial distribution of an electron charge configuration in chemical molecules. In this article, we present the first partitioning and placement algorithm for automatic QCA layout. We identify several objectives and constraints that will enhance the buildability of QCA circuits. The results are intended to: (1) define what is computationally interesting and could actually be built wi ...

Keywords: Nanotechnology, partitioning, placement, quantum-dot cellular automata

11 Level set and PDE methods for computer graphics
David Breen, Ron Fedkiw, Ken Museth, Stanley Osher, Guillermo Sapiro, Ross Whitaker
August 2004 **Proceedings of the conference on SIGGRAPH 2004 course notes GRAPH '04**
Publisher: ACM Press
Full text available: pdf(17.07 MB) Additional Information: full citation, abstract

Level set methods, an important class of partial differential equation (PDE) methods, define dynamic surfaces implicitly as the level set (iso-surface) of a sampled, evolving nD function. The course begins with preparatory material that introduces the concept of using partial differential equations to solve problems in computer graphics, geometric modeling and computer vision. This will include the structure and behavior of several different types of differential equations, e.g. the level set eq ...

12 Controlling the defect in existing variable-order Adams codes for initial-value problems
P. M. Hanson, W. H. Enright
March 1983 **ACM Transactions on Mathematical Software (TOMS)**, Volume 9 Issue 1
Publisher: ACM Press

Full text available: pdf(1.19 MB) Additional Information: full citation, references, citings, index terms

13 Modelling: Free-form modelling for surface inpainting

Gerhard H. Bendels, Michael Guthe, Reinhard Klein
January 2006 **Proceedings of the 4th international conference on Computer graphics, virtual reality, visualisation and interaction in Africa Afrigaph '06**
Publisher: ACM Press
Additional Information: full citation, abstract, references, index terms

In this paper, we describe a novel approach to 3D shape modelling, targeting at the reconstruction and repair of digitised models -- a task that is frequently encountered in particular in the fields of cultural heritage and archaeology. In these fields, faithfully digitised models are often to be restorated in order to visualise the object in its original state, reversing the effects of aging or decay. In our approach, we combine intuitive free-form modelling techniques with automatic 3D surface ...

14 Machine learning with data dependent hypothesis classes

Adam Cannon, J. Mark Ettinger, Don Hush, Clint Scovel
March 2002 **The Journal of Machine Learning Research**, Volume 2
Publisher: MIT Press
Full text available: pdf(232.41 KB) Additional Information: full citation, abstract, references, index terms

We extend the VC theory of statistical learning to data dependent spaces of classifiers. This theory can be viewed as a decomposition of classifier design into two components; the first component is a restriction to a data dependent hypothesis class and the second is empirical risk minimization within that class. We define a measure of complexity for data dependent hypothesis classes and provide data dependent versions of bounds on error deviance and estimation error. We also provide a structura ...

Keywords: Shatter coefficient, classification, computational learning theory, empirical process theory, structural risk minimization

15 Evolutionary testing of classes

Paolo Tonella
July 2004 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2004 ACM SIGSOFT international symposium on Software testing and analysis ISSTA '04**, Volume 29 Issue 4
Publisher: ACM Press
Full text available: pdf(200.07 KB) Additional Information: full citation, abstract, references, citings, index terms

Object oriented programming promotes reuse of classes in multiple contexts. Thus, a class is designed and implemented with several usage scenarios in mind, some of which possibly open and generic. Correspondingly, the unit testing of classes cannot make too strict assumptions on the actual method invocation sequences, since these vary from application to application.In this paper, a genetic algorithm is exploited to automatically produce test cases for the unit testing of classes in a generic us ...

Keywords: automated test case generation, genetic algorithms, object-oriented testing

16 Computer Processing of Line-Drawing Images

Herbert Freeman
March 1974 **ACM Computing Surveys (CSUR)**, Volume 6 Issue 1

Publisher: ACM Press
Full text available: pdf(3.18 MB) Additional Information: full citation, references, citings, index terms

17 Frontmatter (TOC, Letters, Philosophy of computer science, Interviewers needed, Taking software requirements creation from folklore to analysis, SW components and product lines: from business to systems and technology, Software engineering survey)
September 2005 **ACM SIGSOFT Software Engineering Notes**, Volume 30 Issue 5
Publisher: ACM Press
Full text available: pdf(1.98 MB) Additional Information: full citation

18 Tree induction vs. logistic regression: a learning-curve analysis
Claudia Perlich, Foster Provost, Jeffrey S. Simonoff
December 2003 **The Journal of Machine Learning Research**, Volume 4
Publisher: MIT Press
Full text available: pdf(263.37 KB) Additional Information: full citation, abstract, references, citings, index terms

Tree induction and logistic regression are two standard, off-the-shelf methods for building models for classification. We present a large-scale experimental comparison of logistic regression and tree induction, assessing classification accuracy and the quality of rankings based on class-membership probabilities. We use a learning-curve analysis to examine the relationship of these measures to the size of the training set. The results of the study show several things. (1) Contrary to some prior o ...

19 A survey of methods for recovering quadrics in triangle meshes
Sylvain Petitjean
June 2002 **ACM Computing Surveys (CSUR)**, Volume 34 Issue 2
Publisher: ACM Press
Full text available: pdf(3.91 MB) Additional Information: full citation, abstract, references, citings, index terms

In a variety of practical situations such as reverse engineering of boundary representation from depth maps of scanned objects, range data analysis, model-based recognition and algebraic surface design, there is a need to recover the shape of visible surfaces of a dense 3D point set. In particular, it is desirable to identify and fit simple surfaces of known type wherever these are in reasonable agreement with the data. We are interested in the class of quadric surfaces, that is, algebraic surfa ...

Keywords: Data fitting, geometry enhancement, local geometry estimation, mesh fairing, shape recovery

20 Model-based testing in practice
S. R. Dalal, A. Jain, N. Karunanithi, J. M. Leaton, C. M. Lott, G. C. Patton, B. M. Horowitz
May 1999 **Proceedings of the 21st international conference on Software engineering**
Publisher: IEEE Computer Society Press
Full text available: pdf(1.24 MB) Additional Information: full citation, references, citings, index terms

Keywords: AETG software system, automatic test generation, model-based testing

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1 A placement algorithm for array processors
Dah-Juh Chyan, Melvin A. Breuer
June 1983 **Proceedings of the 20th conference on Design automation**
Publisher: IEEE Press
Full text available: pdf(648.80 KB) Additional Information: full citation, abstract, references, citings, index terms

In this report a concurrent pairwise exchange placement algorithm executing on an array processor is presented. Two force functions and their effects are discussed. The oscillation phenomenon caused by the concurrent computation is investigated and some solutions are suggested. A design for the array processor is presented along with a complexity analysis which indicates that this algorithm is O(N2) faster than a conventional sequential placement algorithm if N&t ...

Keywords: Array-processor, Oscillation, Pairwise exchange, Placement, VLSI

2 Adaptive control algorithms for decentralized optimal traffic engineering in the internet
Constantino M. Lagoa, Hao Che, Bernardo A. Movsichoff
June 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 3
Publisher: IEEE Press
Full text available: pdf(512.03 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we address the problem of optimal decentralized traffic engineering when multiple paths are available for each call. More precisely, given a set of possible paths for each call, we aim at distributing the traffic among the available paths in order to maximize a given utility function. To solve this problem, we propose a large family of decentralized sending rate control laws having the property that each of the members of this family "steers" the traffic allocation to an optimal o ...

Keywords: optimization, sliding mode control, traffic engineering

3 Analysis of shortest-path routing algorithms in a dynamic network environment
Zheng Wang, Jon Crowcroft
April 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 2
Publisher: ACM Press
Full text available: pdf(615.29 KB) Additional Information: full citation, abstract, citings, index terms

In a dynamic network environment under heavy traffic load, shortest-path routing algorithms, particularly those that attempt to adapt to traffic changes, frequently exhibit oscillatory behaviors and cause performance degradation. In this paper we first examine the problems from the perspective of control theory and decision making, and then analyze the behaviors of the shortest-path routing algorithms in details.

4 Algorithms for accuracy enhancement in a hardware logic simulator

P. Agrawal, R. Tutundjian, W. Dally
June 1989 **Proceedings of the 26th ACM/IEEE conference on Design automation**
Publisher: ACM Press
Full text available: pdf(502.13 KB) Additional Information: full citation, abstract, references, index terms

In this paper, we describe a hardware multiple delay logic simulator that incorporates efficient timing analyses algorithms for event cancellations, spike and race analyses and oscillation detection. The algorithms are implemented on a set of reconfigurable processors, arranged in a pipelined configuration. Spike analysis is accomplished by dynamic pulse width measurement. Both zero and non-zero delay oscillations are detected. Results of simulating industrial VLSI chips are presented to il ...

5 Design and stability analysis of a rate control algorithm using the Routh-Hurwitz stability criterion

James Aweya, Michel Ouellette, Delfin Y. Montuno
August 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 4
Publisher: IEEE Press
Full text available: pdf(907.29 KB) Additional Information: full citation, abstract, references, index terms

Feedback delays arise in the control of a computer network--from the information transfer process itself and from the processing of control signals at the network nodes. Flow control of data sources in a computer network often results in a time-delayed control problem. Feedback delay reduces the stability of a system. In this paper we discuss how to use the Routh-Hurwitz stability criterion to design and analyze the stability of a flow control algorithm with feedback delay.

Keywords: ATM networks, Routh-Hurwitz stability criterion, available bit rate (ABR) flow control, congestion control, feedback delay, stability analysis

6 Oscillation control in logic simulation using dynamic dominance graphs

Peter Dahlgren
June 1996 **Proceedings of the 33rd annual conference on Design automation**
Publisher: ACM Press
Full text available: pdf(125.57 KB) Additional Information: full citation, references, index terms

7 Route oscillations in I-BGP with route reflection

Anindya Basu, Chih-Hao Luke Ong, April Rasala, F. Bruce Shepherd, Gordon Wilfong
August 2002 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2002 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '02**, Volume 32 Issue 4
Publisher: ACM Press
Full text available: pdf(315.21 KB) Additional Information: full citation, abstract, references, citings, index terms

We study the route oscillation problem [16, 19] in the Internal Border Gateway Protocol (I-BGP)[18] when route reflection is used. We propose a formal model of I-BGP and use it

to show that even deciding whether an I-BGP configuration with route reflection can converge is an NP-Complete problem. We then propose a modification to I-BGP and show that route reflection cannot cause the modified protocol to diverge. Moreover, we show that the modified protocol converges to the same stable routing con ...

Keywords: I-BGP, route oscillations, route reflection, stability

8 Methods to speed up error back-propagation learning algorithm

Dilip Sarkar
December 1995 **ACM Computing Surveys (CSUR)**, Volume 27 Issue 4
Publisher: ACM Press
Full text available: pdf(1.86 MB) Additional Information: full citation, references, citings, index terms

Keywords: adaptive learning rate, artificial neural networks, conjugate gradient method, energy function, error back-propagation learning, feedforward networks, learning rate, momentum, oscillation of weights, training set size

9 A comment on the presentation and testing of CALGO codes and a remark on algorithm 639: To integrate some infinite oscillating tails

Tim Hopkins
September 2002 **ACM Transactions on Mathematical Software (TOMS)**, Volume 28 Issue 3
Publisher: ACM Press
Full text available: pdf(135.06 KB) Additional Information: full citation, abstract, references, citings, index terms

We report on a number of coding problems that occur frequently in published CALGO software and are still appearing in new algorithm submissions. Using Algorithm 639 as an extended example, we describe how these types of faults may be almost entirely eliminated using available commercial compilers and software tools. We consider the levels of testing required to instil confidence that code performs reliably. Finally, we look at how the source code may be re-engineered, and thus made more maintain ...

Keywords: Debugging, Fortran, software tools, testing

10 User tests and multimodal gesture: Hand motion gestural oscillations and multimodal discourse

Yingen Xiong, Francis Quek, David McNeill
November 2003 **Proceedings of the 5th international conference on Multimodal interfaces**
Publisher: ACM Press
Full text available: pdf(1.04 MB) Additional Information: full citation, abstract, references, citings, index terms

To develop multimodal interfaces, one needs to understand the constraints underlying human communicative gesticulation and the kinds of features one may compute based on these underlying human characteristics.In this paper we address hand motion oscillatory gesture detection in natural speech and conversation. First, the hand motion trajectory signals are extracted from video. Second, a wavelet analysis based approach is presented to process the signals. In this approach, wavelet ridges are extr ...

Keywords: gesture symmetry, hand gesture, hand motion trajectory, interaction, multimodal, multimodal discourse structure, speech analysis

11 Eliminating periodic packet losses in the 4.3-Tahoe BSD TCP congestion control algorithm

Zheng Wang, Jon Crowcroft
April 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 2
Publisher: ACM Press
Full text available: pdf(504.22 KB) Additional Information: full citation, abstract, citings, index terms

The congestion control algorithm embedded in the 4.3-Tahoe BSD TCP implementation has dramatically improved congestion control over the Internet. However, several recent simulation studies on the dynamics of this algorithm has revealed that the algorithm exhibits clear oscillatory patterns in sending window size, round trip delay and bottleneck queue length. In this paper, we present a new congestion signal scheme and a dual traffic adjustment strategy. Simulation results show that our modificat ...

12 Manipulating subpopulations of feasible and infeasible solutions in genetic algorithms

D. Ansa Sekharan, Roger L. Wainwright
March 1993 **Proceedings of the 1993 ACM/SIGAPP symposium on Applied computing: states of the art and practice**
Publisher: ACM Press
Full text available: pdf(702.17 KB) Additional Information: full citation, references, citings, index terms

13 Analysis of the link error monitoring protocols in the common channel signaling network

V. Ramaswami, Jonathan L. Wang
February 1993 **IEEE/ACM Transactions on Networking (TON)**, Volume 1 Issue 1
Publisher: IEEE Press
Full text available: pdf(1.39 MB) Additional Information: full citation, references, citings, index terms

14 Design, analysis, and implementation of DVSR: a fair high-performance protocol for packet rings

Violeta Gambiroza, Ping Yuan, Laura Balzano, Yonghe Liu, Steve Sheafor, Edward Knightly
February 2004 **IEEE/ACM Transactions on Networking (TON)**, Volume 12 Issue 1
Publisher: IEEE Press
Full text available: pdf(671.81 KB) Additional Information: full citation, abstract, references, citings, index terms

The Resilient Packet Ring (RPR) IEEE 802.17 standard is a new technology for high-speed backbone metropolitan area networks. A key performance objective of RPR is to simultaneously achieve high utilization, spatial reuse, and fairness, an objective not achieved by current technologies such as SONET and Gigabit Ethernet nor by legacy ring technologies such as FDDI. The core technical challenge for RPR is the design of a bandwidth allocation algorithm that dynamically achieves these three properti ...

Keywords: dynamic bandwidth allocation, fairness, metro rings, scheduling

15 ALGORITHM 639: to integrate some infinite oscillating tails

James Lyness, Gwendolen Hines
March 1986 **ACM Transactions on Mathematical Software (TOMS)**, Volume 12 Issue 1

Publisher: ACM Press
Full text available: pdf(122.19 KB) Additional Information: full citation, references, citings, index terms

Keywords: Euler transformation, FORTRAN 77, infinite integration interval, oscillating integrand function, periodic function, series acceleration

16 Dynamic behavior of slowly-responsive congestion control algorithms
Deepak Bansal, Hari Balakrishnan, Sally Floyd, Scott Shenker
August 2001 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2001 conference on Applications, technologies, architectures, and protocols for computer communications SIGCOMM '01**, Volume 31 Issue 4
Publisher: ACM Press
Full text available: pdf(249.78 KB) Additional Information: full citation, abstract, references, citings, index terms

The recently developed notion of *TCP-compatibility* has led to a number of proposals for alternative congestion control algorithms whose long-term throughput as a function of a steady-state loss rate is similar to that of TCP. Motivated by the needs of some streaming and multicast applications, these algorithms seem poised to take the current TCP-dominated Internet to an Internet where many congestion control algorithms co-exist. An important characteristic of these alternative algorithms ...

17 Algorithm 794: numerical Hankel transform by the Fortran program HANKEL
Thomas Wieder
June 1999 **ACM Transactions on Mathematical Software (TOMS)**, Volume 25 Issue 2
Publisher: ACM Press
Full text available: pdf(151.59 KB) Additional Information: full citation, abstract, references, index terms

The numerical evaluation of the Hankel transform poses the problems of both infinite integration and Bessel function calculation. Using the corresponding numerical program routines from the literature, a Fortran program has been written to perform the Hankel transform for real functions, given either in analytical form as subroutines or in discrete form as tabulated data.

Keywords: Hankel transform, numerical analysis

18 Algorithm 808: ARfit—a matlab package for the estimation of parameters and eigenmodes of multivariate autoregressive models
Tapio Schneider, Arnold Neumaier
March 2001 **ACM Transactions on Mathematical Software (TOMS)**, Volume 27 Issue 1
Publisher: ACM Press
Full text available: pdf(81.51 KB) Additional Information: full citation, abstract, references, citings, index terms

ARfit is a collection of Matlab modules for modeling and analyzing multivariate time series with autoregressive (AR) models. ARfit contains modules to given time series data, for analyzing eigen modes of a fitted model, and for simulating AR processes. ARfit estimates the parameters of AR models from given time series data with a stepwise least squares algorithm that is computationally efficient, in particular when the data are high-dimensional. ARfit modules construct approximate confidenc ...

Keywords: Matlab, confidence intervals, eigenmodes, least squares, model identification, order selection, parameter estimation, principal oscillation pattern

19 Source-adaptive multilayered multicast algorithms for real-time video distribution
Brett J. Vickers, Célio Albuquerque, Tatsuya Suda
December 2000 **IEEE/ACM Transactions on Networking (TON)**, Volume 8 Issue 6
Publisher: IEEE Press
Full text available: pdf(206.61 KB) Additional Information: full citation, references, citings

Keywords: congestion control, feedback control, multilayered video

20 Random oscillations arising in the MACSYMA implementation of Khachian-type algorithms in linear programming
Navaratna S. Rajaram
May 1980 **ACM SIGSAM Bulletin**, Volume 14 Issue 2
Publisher: ACM Press
Full text available: pdf(180.09 KB) Additional Information: full citation, abstract, references

Anderson and Wang in [1] ran a series of experiments on MACSYMA to test the practicality of the now widely publicized Khachian algorithm for deciding the consistency of a system of linear inequalities. They found the Khachian algorithm to be highly impractical even for very small-sized problems which, in turn, led them to construct a modified algorithm which proved to be a substantial improvement over the original one. In this paper, results of a statistical analysis of data furnished by these e ...

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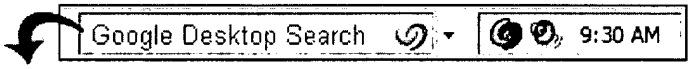
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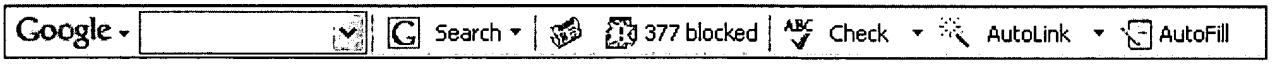
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